

AMENDMENTS TO THE CLAIMS

The listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims

1. (Currently Amended) A three-dimensional shape measuring system comprising:
a measuring section for measuring a three-dimensional shape of an object by scanning the object; [[and]]
a display section for displaying information about an area where the scanning has been completed by the measuring section in accordance with a progress of the scanning; and
an imaging section for taking a two-dimensional image of the object,
wherein the display section displays information about an area where the scanning has been completed by the measuring section in accordance with a progress of the scanning by displaying the two-dimensional image of the object and identifiably showing an area of the two-dimensional image where the scanning has already completed as well as an area where the scanning has not completed yet.

2. (Original) The three-dimensional shape measuring system according to claim 1, wherein the measuring section includes:
a scanning section for changing a measuring direction; and
a distance measuring section for measuring a distance to the object in each measuring direction of the scanning section; and

the measuring section measures the three-dimensional shape of the object based on the measured distance.

3. (Original) The three-dimensional shape measuring system according to claim 2, wherein the measuring section calculates a distance to each point on the object, based on a flight time of a pulsed light from a transmitting time of a pulsed light to a receiving time of the pulsed light reflected from the object.

Claims 4 and 5 (Canceled)

6. (Currently Amended) ~~[[The]]~~ A three-dimensional shape measuring system ~~according to claim 5~~ comprising:

a measuring section for measuring a three-dimensional shape of an object by scanning the object; and

a display section for displaying information about an area where the scanning has been completed by the measuring section in accordance with a progress of the scanning, wherein the information is a message image indicating the status of progress of the scanning.

7. (Original) The three-dimensional shape measuring system according to claim 6, wherein the message image is an image indicating a degree of progress of the scanning as a percentage.

8. (Currently Amended) A three-dimensional shape measuring system comprising:

a measuring section for measuring a three-dimensional shape of an object by scanning the object;

an imaging section for taking [[an]] a two-dimensional image of the object including an area to be measured by the measuring section; and

a display section for displaying the two-dimensional image of the object taken by the imaging section and identifiably [[with]] showing an area of the two-dimensional image where the scanning has already completed [[and]] as well as an area where the scanning has not completed yet based on a degree of progress in the measuring section.

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CDL-1 9. (Original) The three-dimensional shape measuring system according to claim 8, wherein the measuring section includes:

a light source;

a scanner for scanning the object by deflecting a light from the light source;

a sensor for receiving a light deflected by the scanner and reflected from the object; and

a calculating section for calculating a distance to each scanning position of the object based on an output of the sensor.

10. (Original) The three-dimensional shape measuring system according to claim 8, wherein the measuring section includes:

a two-dimensional imaging device;

a scanner for changing an imaging direction of the two-dimensional imaging device;

an outline generating section for generating an image formed by an outline of each image obtained by the two-dimensional imaging device on each scanning position; and

a processing section for generating information with respect to a three-dimensional shape of the object, based on the image generated by the outline generating section.

11. (Original) The three-dimensional shape measuring system according to claim 8, wherein the display section displays the three-dimensional shape which is measured.

12. (Original) The three-dimensional shape measuring system according to claim 8, wherein the display section displays during the scanning by the measuring section.

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13. (Original) The three-dimensional shape measuring system according to claim 12, wherein the display section updates display contents a plurality of times during the scanning by the measuring section.

14. (Original) The three-dimensional shape measuring system according to claim 8, further comprising an instructing section for instructing a stop of the measurement by the measuring section during measurement.

15. (Original) The three-dimensional shape measuring system according to claim 14, further comprising:

a storage section for storing a result of a measurement; and

a control section for controlling the measuring section to store a result of a measurement already measured when the stop of measuring is instructed by the instructing section.

16. (Currently Amended) A three-dimensional shape measuring system comprising:
a measuring section for measuring a three-dimensional shape of an object by scanning the object;

an instructing section for instructing a stop of measuring by the measuring section;

[[and]]

a storage section for storing the three-dimensional shape measured by the measuring section before the stop of measuring is executed when the stop of measuring is instructed; and

an inquiry section for inquiring of a user as to whether or not previous measured data are saved when the instructing the stop of measuring by the measuring section is received.

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17. (Original) The three-dimensional shape measuring system according to claim 16, wherein the measuring section scans two-dimensionally the object in an one-way form.

18. (Original) The three-dimensional shape measuring system according to claim 17, wherein the measuring section scans spirally the object.

19. (Original) The three-dimensional shape measuring system according to claim 16, wherein the scanning of the measuring section is performed by changing a relative position of the measuring section and the object.

20. (Original) The three-dimensional shape measuring system according to claim 19, wherein the measuring section includes:

a rotary base for placing the object; and

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an imaging device fixed regardless of a rotation of the rotary base; and
the imaging device images for measuring the three-dimensional shape of the object in a
predetermined period rotating on the rotary base.
